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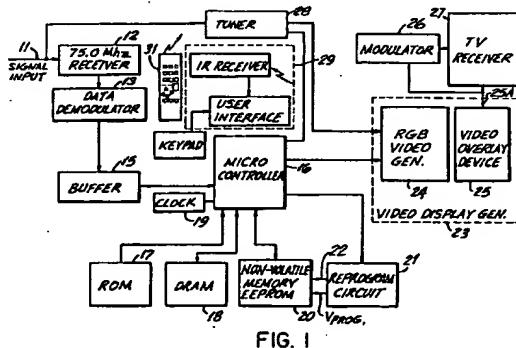
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(54) Improved electronic television program schedule guide system and method

(57) An electronic program schedule system which includes a receiver for receiving broadcast, satellite or cablecast television programs for a plurality of television channels and a tuner for tuning a television receiver to a selected one of the plurality of channels. A data processor receives and stores in a memory television program schedule information for a plurality of television programs to appear on the plurality of television channels. A user control apparatus, such as a remote controller, is utilised by a viewer to choose user control commands and transmit signals in response to the data processor which receives the signals in response to user control commands. A television receiver is used to display the television programs and television program schedule information. A video display generator receives video control commands from the data processor and program schedule information from the memory and displays a portion of the program schedule information in overlaying relationship with a television program appearing on a television channel in at least one mode of operation of the television programming guide. The data processor controls the video display generator with video control commands, issued in response to the user control commands, to display program schedule information for any chosen one of the plurality of television programs in overlaying relationship with at least one television program then appearing on any other chosen one of the plurality of channels on the television receiver.





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Office

EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	WO 92/04801 A (INSIGHT TELECAST INC.) 19 March 1992 (1992-03-19) * page 24, line 17 - line 33 *	1-4,16, 26-30	H04N5/445
A	* page 11, line 30 - page 12, line 26 *	13	
Y	EP 0 447 968 A (RCA LICENSING CORPORATION) 25 September 1991 (1991-09-25) * the whole document *	1-4,16, 26-30	
X	BRUGLIERA V.: "DIGITAL ON-SCREEN DISPLAY, A NEW TECHNOLOGY FOR THE CONSUMER INTERFACE" SYMPOSIUM RECORD CABLE SESSIONS OF THE 18TH INTERNATIONAL TELEVISION SYMPOSIUM AND TECHNICAL EXHIBITION, MONTREUX, (CH), 10-15 JUNE 1993, 10 June 1993 (1993-06-10), pages 571-586, XP000379382	1,2,16, 26,27	
Y	* the whole document *	3,4,6	
Y	US 5 301 028 A (BANKER R. ET AL) 5 April 1994 (1994-04-05) * column 8, line 9 - line 17 * * column 10, line 6 - line 54 *	3,4	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04N
Y	US 4 751 578 A (REITER ET AL) 14 June 1988 (1988-06-14) * the whole document *	6	
A	EP 0 401 930 A (N.V.PHILIPS GLOEILAMPENFABRIEKEN) 12 December 1990 (1990-12-12) * column 12, line 43 - line 44 *	32	
		-/--	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search		Examiner
The Hague	4 June 2004		Verschelden, J
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 07 5599

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
A	<p>KORNHAAS W.: "Von der Textprogrammierung über TOP zum Archivsystem" RADIO FERNSEHEN ELEKTRONIK., vol. 40, no. 8, 30 August 1991 (1991-08-30), pages 465-468, XP000240875 VEB VERLAG TECHNIK. BERLIN., DE ISSN: 1436-1574 * figure 5 *</p> <p>-----</p>	32							
E	<p>WO 94/14282 A (DISCOVERY COMMUNICATIONS INC.) 23 June 1994 (1994-06-23)</p> <p>* page 56, line 6 - page 61, line 21 * * page 57, line 8 - page 59, line 10 * * page 69, line 19 - page 70, line 26 * * page 71, line 19 - page 73, line 17 *</p> <p>-----</p>	1-3, 14-19, 26-30							
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 33%;">Examiner</td> </tr> <tr> <td>The Hague</td> <td>4 June 2004</td> <td>Verschelden, J</td> </tr> </table> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document</p>				Place of search	Date of completion of the search	Examiner	The Hague	4 June 2004	Verschelden, J
Place of search	Date of completion of the search	Examiner							
The Hague	4 June 2004	Verschelden, J							

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 04 07 5599

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-06-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9204801	A 19-03-1992	AT 270808 T	15-07-2004
		AT 191596 T	15-04-2000
		AT 220273 T	15-07-2002
		CA 2091160 A1	11-03-1992
		CA 2284587 A1	11-03-1992
		CA 2420426 A1	11-03-1992
		DE 69132096 D1	11-05-2000
		DE 69132096 T2	16-11-2000
		DE 69133060 D1	08-08-2002
		DE 69133060 T2	06-03-2003
		DE 69133404 D1	12-08-2004
		DK 548286 T3	11-09-2000
		DK 969662 T3	28-10-2002
		EP 1111912 A1	27-06-2001
		EP 1244300 A1	25-09-2002
		EP 1337108 A1	20-08-2003
		EP 0548286 A1	30-06-1993
		EP 0969662 A1	05-01-2000
		ES 2144402 T3	16-06-2000
		ES 2180253 T3	01-02-2003
		GR 3033659 T3	31-10-2000
		JP 3098215 B2	16-10-2000
		JP 10208328 A	07-08-1998
		JP 6504165 T	12-05-1994
		JP 2001186438 A	06-07-2001
		JP 2004088792 A	18-03-2004
		US 5353121 A	04-10-1994
		US 5727060 A	10-03-1998
		US 2002186959 A1	12-12-2002
		WO 9204801 A1	19-03-1992
		US 6216265 B1	10-04-2001
		US 2003159147 A1	21-08-2003
		US 5479268 A	26-12-1995
		US 5532754 A	02-07-1996
		US 5790198 A	04-08-1998
		US 5619274 A	08-04-1997
		US 6167188 A	26-12-2000
		US 2001012439 A1	09-08-2001
		US 2003185545 A1	02-10-2003
		US 5949954 A	07-09-1999
		US 5479266 A	26-12-1995
		US 5809204 A	15-09-1998
		US 2004008971 A1	15-01-2004
		US 5808608 A	15-09-1998
		US 2003142957 A1	31-07-2003
		US 2001024564 A1	27-09-2001

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 04 07 5599

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-06-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0447968	A	25-09-1991	US 5343300 A AT 144669 T DE 69122794 D1 DE 69122794 T2 EP 0447968 A2 ES 2094764 T3 FI 911287 A	30-08-1994 15-11-1996 28-11-1996 07-05-1997 25-09-1991 01-02-1997 23-09-1991
US 5301028	A	05-04-1994	AU 658796 B2 AU 3146493 A WO 9311641 A1 US 5497187 A	27-04-1995 28-06-1993 10-06-1993 05-03-1996
US 4751578	A	14-06-1988	NONE	
EP 0401930	A	12-12-1990	US 5047867 A AT 116501 T CN 1049436 A ,B CS 9002776 A2 DE 69015454 D1 DE 69015454 T2 EP 0401930 A2 ES 2068991 T3 HK 75596 A JP 3101485 A KR 164593 B1	10-09-1991 15-01-1995 20-02-1991 12-11-1991 09-02-1995 13-07-1995 12-12-1990 01-05-1995 10-05-1996 26-04-1991 20-03-1999
WO 9414282	A	23-06-1994	AT 177277 T AT 199294 T AT 176840 T AT 192005 T AT 190180 T AT 183352 T AT 176841 T AT 219615 T AT 197366 T AT 214534 T AT 237906 T AT 221714 T AT 262251 T AT 240021 T AU 715683 B2 AU 4440797 A AU 712157 B2 AU 4532597 A AU 693775 B2	15-03-1999 15-03-2001 15-03-1999 15-05-2000 15-03-2000 15-08-1999 15-03-1999 15-07-2002 15-11-2000 15-03-2002 15-05-2003 15-08-2002 15-04-2004 15-05-2003 10-02-2000 29-01-1998 28-10-1999 05-02-1998 09-07-1998

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 04 07 5599

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-06-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9414282 A		AU 5732994 A	04-07-1994
		AU 692427 B2	11-06-1998
		AU 5733094 A	04-07-1994
		AU 691479 B2	21-05-1998
		AU 5733194 A	04-07-1994
		AU 692428 B2	11-06-1998
		AU 5733294 A	04-07-1994
		AU 5736394 A	04-07-1994
		AU 5845894 A	22-06-1994
		AU 5869894 A	04-07-1994
		AU 716184 B2	24-02-2000
		AU 6066798 A	04-06-1998
		AU 716182 B2	24-02-2000
		AU 6066898 A	04-06-1998
		BR 9307619 A	15-06-1999
		BR 9307620 A	10-08-1999
		BR 9307621 A	15-06-1999
		BR 9307622 A	15-06-1999
		BR 9307623 A	16-05-2000
		BR 9307624 A	15-06-1999
		BR 9307625 A	31-08-1999
		CA 2151456 A1	23-06-1994
		CA 2151457 A1	23-06-1994
		CA 2151458 A1	23-06-1994
		CA 2151459 A1	23-06-1994
		CA 2151460 A1	23-06-1994
		CA 2151461 A1	09-06-1994
		CA 2151462 A1	23-06-1994
		CA 2271552 A1	09-06-1994
		CA 2271555 A1	09-06-1994
		CA 2345161 A1	09-06-1994